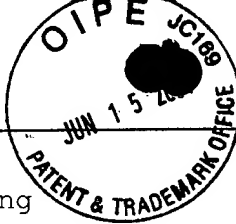


Sequence Listing



SEQUENCE LISTING

5 (1) GENERAL INFORMATION:

(i) APPLICANT: Bednar, Martin M.
Thomas, G. Roger
Gross, Cordell E.

10 (ii) TITLE OF INVENTION: ANTI-CD18 ANTIBODIES IN STROKE

(iii) NUMBER OF SEQUENCES: 15

15 (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Genentech, Inc.
(B) STREET: 1 DNA Way
(C) CITY: South San Francisco
(D) STATE: California
(E) COUNTRY: USA
(F) ZIP: 94080

20 (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: WinPatin (Genentech)

25 (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/811,384
(B) FILING DATE: 20-Dec-2000
(C) CLASSIFICATION:

30 (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 09/251652
(B) FILING DATE: 17-FEB-2000

35 (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/788800
(B) FILING DATE: 22-JAN-1997

40 (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 60/093038
(B) FILING DATE: 23-JAN-1996

45 (viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Love, Richard B.
(B) REGISTRATION NUMBER: 34,659
(C) REFERENCE/DOCKET NUMBER: P1729C1

50 (ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 650/225-5530

(B) TELEFAX: 650/952-9881

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 98 amino acids

(B) TYPE: Amino Acid

(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
1 5 10 15
Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys
20 25 30
Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
35 40 45
Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser
50 55 60
Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
65 70 75
Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
80 85 90
Asn Thr Lys Val Asp Lys Arg Val
95

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 98 amino acids

(B) TYPE: Amino Acid

(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser
1 5 10 15
Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys
20 25 30
Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
35 40 45
Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser
50 55 60

Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn
65 70 75

5 Phe Gly Thr Gln Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
80 85 90

Asn Thr Lys Val Asp Lys Thr Val
95

10 (2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 98 amino acids
(B) TYPE: Amino Acid
15 (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

20 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser
1 5 10 15

Arg Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys
20 25 30

25 Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
35 40 45

Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser
50 55 60

30 Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
65 70 75

35 Leu Gly Thr Gln Thr Tyr Thr Cys Asn Val Asn His Lys Pro Ser
80 85 90

Asn Thr Lys Val Asp Lys Arg Val
95

40 (2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 98 amino acids
(B) TYPE: Amino Acid
45 (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

50 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser
1 5 10 15

Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys

	20	25	30
	Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala		
	35	40	45
5	Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser		
	50	55	60
	Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser		
10	65	70	75
	Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser		
	80	85	90
15	Asn Thr Lys Val Asp Lys Arg Val		
	95		

(2) INFORMATION FOR SEQ ID NO:5:

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 107 amino acids
 (B) TYPE: Amino Acid
 (D) TOPOLOGY: Linear

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

	Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp		
	1	5	10
			15
30	Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn		
	20	25	30
	Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn		
	35	40	45
35	Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp		
	50	55	60
	Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser		
40	65	70	75
	Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr		
	80	85	90
45	His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly		
	95	100	105
	Glu Cys		

50 (2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105 amino acids
 (B) TYPE: Amino Acid
 (D) TOPOLOGY: Linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

10	Gln	Pro	Lys	Ala	Ala	Pro	Ser	Val	Thr	Leu	Phe	Pro	Pro	Ser	Ser	1	5	10	15
10	Glu	Glu	Leu	Gln	Ala	Asn	Lys	Ala	Thr	Leu	Val	Cys	Leu	Ile	Ser	20	25	30	
15	Asp	Phe	Tyr	Pro	Gly	Ala	Val	Thr	Val	Ala	Trp	Lys	Ala	Asp	Ser	35	40	45	
15	Ser	Pro	Val	Lys	Ala	Gly	Val	Glu	Thr	Thr	Thr	Pro	Ser	Lys	Gln	50	55	60	
20	Ser	Asn	Asn	Lys	Tyr	Ala	Ala	Ser	Ser	Tyr	Leu	Ser	Leu	Thr	Pro	65	70	75	
25	Glu	Gln	Trp	Lys	Ser	His	Arg	Ser	Tyr	Ser	Cys	Gln	Val	Thr	His	80	85	90	
25	Glu	Gly	Ser	Thr	Val	Glu	Lys	Thr	Val	Ala	Pro	Thr	Glu	Cys	Ser	95	100	105	

(2) INFORMATION FOR SEQ ID NO:7:

30

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 100 amino acids
 (B) TYPE: Amino Acid
 (D) TOPOLOGY: Linear

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

40	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Pro	1	5	10	15
40	Lys	Asn	Ser	Ser	Met	Ile	Ser	Asn	Thr	Pro	Ala	Leu	Gly	Cys	Leu	20	25	30	
45	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	35	40	45	
45	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	50	55	60	
50	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	His	65	70	75	

Gln Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
80 85 90

5 Pro Ser Asn Thr Lys Val Asp Lys Arg Val
95 100

(2) INFORMATION FOR SEQ ID NO:8:

10 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 11 amino acids
(B) TYPE: Amino Acid
(D) TOPOLOGY: Linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro
1 5 10

(2) INFORMATION FOR SEQ ID NO:9:

20 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 8 amino acids
(B) TYPE: Amino Acid
(D) TOPOLOGY: Linear

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

His Gln Asn Leu Ser Asp Gly Lys
1 5

30 (2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 232 amino acids
35 (B) TYPE: Amino Acid
(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

40 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
1 5 10 15

Gly Ser Leu Arg Leu Ser Cys Ala Thr Ser Gly Tyr Thr Phe Thr
20 25 30

45 Glu Tyr Thr Met His Trp Met Arg Gln Ala Pro Gly Lys Gly Leu
35 40 45

50 Glu Trp Val Ala Gly Ile Asn Pro Lys Asn Gly Gly Thr Ser His
50 55 60

Asn Gln Arg Phe Met Asp Arg Phe Thr Ile Ser Val Asp Lys Ser

	65	70	75
	Thr Ser Thr Ala Tyr Met Gln Met Asn Ser Leu Arg Ala Glu Asp		
	80	85	90
5	Thr Ala Val Tyr Tyr Cys Ala Arg Trp Arg Gly Leu Asn Tyr Gly		
	95	100	105
	Phe Asp Val Arg Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu Val		
10	110	115	120
	Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu		
	125	130	135
15	Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly		
	140	145	150
	Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp		
20	155	160	165
	Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val		
	170	175	180
	Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val		
25	185	190	195
	Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn		
	200	205	210
30	His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys		
	215	220	225
	Ser Cys Asp Lys Thr His Thr		
	230		

35

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 214 amino acids

(B) TYPE: Amino Acid

(D) TOPOLOGY: Linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

45	Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val		
	1	5	10
	Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Asn		
	20	25	30
50	Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys		
	35	40	45

	Leu	Leu	Ile	Tyr	Tyr	Thr	Ser	Thr	Leu	His	Ser	Gly	Val	Pro	Ser	
					50					55					60	
5	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Tyr	Thr	Leu	Thr	Ile	
					65					70					75	
	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	
					80					85					90	
10	Gly	Asn	Thr	Leu	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	
					95					100					105	
	Ile	Lys	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	
15					110					115					120	
	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	
					125					130					135	
20	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	
					140					145					150	
	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	
25					155					160					165	
	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	
					170					175					180	
	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	
30					185					190					195	
	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser	Phe	Asn	
					200					205					210	
35	Arg	Gly	Glu	Cys												

(2) INFORMATION FOR SEQ ID NO:12:

40 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 450 amino acids
 (B) TYPE: Amino Acid
 (D) TOPOLOGY: Linear

45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	
	1				5					10					15	
50	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Thr	Ser	Gly	Tyr	Thr	Phe	Thr	
					20					25					30	

	Glu	Tyr	Thr	Met	His	Trp	Met	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	
					35					40					45	
5	Glu	Trp	Val	Ala	Gly	Ile	Asn	Pro	Lys	Asn	Gly	Gly	Thr	Ser	His	
					50					55					60	
	Asn	Gln	Arg	Phe	Met	Asp	Arg	Phe	Thr	Ile	Ser	Val	Asp	Lys	Ser	
					65					70					75	
10	Thr	Ser	Thr	Ala	Tyr	Met	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	
					80					85					90	
	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Trp	Arg	Gly	Leu	Asn	Tyr	Gly	
					95					100					105	
15	Phe	Asp	Val	Arg	Tyr	Phe	Asp	Val	Trp	Gly	Gln	Gly	Thr	Leu	Val	
					110					115					120	
	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	
20					125					130					135	
	Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	
					140					145					150	
25	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	
					155					160					165	
	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	
					170					175					180	
30	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	
					185					190					195	
	Thr	Ser	Ser	Asn	Phe	Gly	Thr	Gln	Thr	Tyr	Thr	Cys	Asn	Val	Asp	
35					200					205					210	
	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Thr	Val	Glu	Arg	Lys	
					215					220					225	
40	Cys	Cys	Val	Glu	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Pro	Val	Ala	Gly	
					230					235					240	
	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	
					245					250					255	
45	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	
					260					265					270	
	His	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Met	
50					275					280					285	
	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	

	290	295	300
	Ser Thr Phe Arg Val Val Ser Val Leu	Thr Val Val His Gln Asp	
	305	310	315
5	Trp Leu Asn Gly Lys Glu Tyr Lys Cys	Lys Val Ser Asn Lys Gly	
	320	325	330
	Leu Pro Ala Pro Ile Glu Lys Thr Ile	Ser Lys Thr Lys Gly Gln	
10	335	340	345
	Pro Arg Glu Pro Gln Val Tyr Thr Leu	Pro Pro Ser Arg Glu Glu	
	350	355	360
15	Met Thr Lys Asn Gln Val Ser Leu Thr	Cys Leu Val Lys Gly Phe	
	365	370	375
	Tyr Pro Ser Asp Ile Ala Val Glu Trp	Glu Ser Asn Gly Gln Pro	
20	380	385	390
	Glu Asn Asn Tyr Lys Thr Thr Pro Pro	Met Leu Asp Ser Asp Gly	
	395	400	405
25	Ser Phe Phe Leu Tyr Ser Lys Leu Thr	Val Asp Lys Ser Arg Trp	
	410	415	420
	Gln Gln Gly Asn Val Phe Ser Cys Ser	Val Met His Glu Ala Leu	
	425	430	435
30	His Asn His Tyr Thr Gln Lys Ser Leu	Ser Leu Ser Pro Gly Lys	
	440	445	450

(2) INFORMATION FOR SEQ ID NO:13:

- 35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 7 amino acids
 (B) TYPE: Amino Acid
 (D) TOPOLOGY: Linear

- 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

His Gln Ser Leu Gly Thr Gln
 1 5

45 (2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 8 amino acids
 (B) TYPE: Amino Acid
 50 (D) TOPOLOGY: Linear

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

His Gln Asn Ile Ser Asp Gly Lys
1 5

5 (2) INFORMATION FOR SEQ ID NO:15:

B1 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8 amino acids

(B) TYPE: Amino Acid

10 (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

15 Val Ile Ser Ser His Leu Gly Gln
1 5
